

Appendix B: Facility Conditions Index Report

DRAFT

Combined Condition Assessment

Woodward School for Technology and Research

606 Stuart Avenue, Kalamazoo, Michigan



January 2017



Executive Summary

This Combined Condition Assessment is the product of a collaborative site assessment and survey by the Department of Technology Management and Budget, State Facilities Administration (SFA) and the Department of Licensing and Regulatory Affairs (LARA) Bureau of Construction Codes at the request of the State School Reform/Redesign Office (SRO).

It has been designed to provide a general condition overview of the facility and major site assets. A team visits the site and collects data to determine two factors in eight facilities categories:

Factors:

- **Remaining Service Life** of Facility Elements or Systems which is then utilized to calculate an **Age-Based Condition Index**.
- **Operating Condition** based upon visual observations the day of the visit along with supporting information/records provided by staff or contact personnel.
- Results of the two factors above are averaged/combined to produce a single **Combined Condition Score (CCS)** for the site.

Facilities Categories:

- Structure – Foundation, Parking Lots, Sidewalks, Access
- Exterior – Walls, Windows, Stairways, Doors
- Roofing – Roofing Type and Condition
- HVAC – Air Handlers, Boilers, Chillers, Gas Piping, Cooling Towers, Pumps, Exhaust, etc.
- Electrical – Service & Distribution, Lighting, Emergency Generator, Fire Alarm, Kitchen
- Plumbing – Restrooms, Backflow, Domestic Water/Heating, Distribution, Fire System
- Conveying – Elevators, Lifts
- Interior Construction – Doors, Stairways, Walls, Ceilings, Flooring

Results:

The Woodward School for Technology and Research assessment was performed on **January 31, 2017** by the SFA team and resulted in a **CCS** of: **77.3**

Combined Condition Score (CCS)

There are many ways to measure physical condition of a facility. Performing full, detailed assessments necessary to calculate a Facility Condition Index (FCI), Extended Facility Condition Index (EFCI) or Facilities Needs Index (FNI) are very demanding in terms of input resources up front. This project required an efficient, lean approach whereby an assessment team could move through occupied space quickly with minimal disruption while collecting data. The output needed to be measurable and consistent. While additional information such as annual

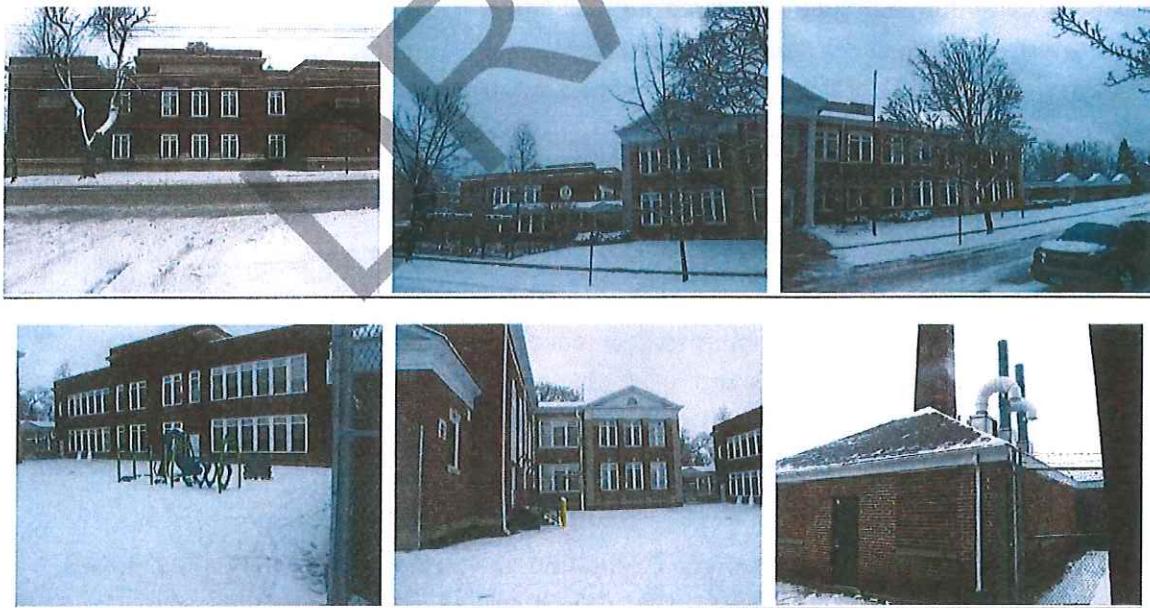
reinvestment rates and replacement costs may also be desirable, these were outside the scope of this first visit.

The DTMB State Facilities Administration (SFA), Building Operations Division assesses buildings within their own portfolio for capital planning purposes. These assessments may be age-based, where the age of building elements or assets are compared to their respective design-life; or observed-condition-based where defects and site conditions are observed and rated.

The Combined Condition Score is a combination of both the age-based condition index and observed condition, equally weighted and averaged together resulting in a number between 0 and 100. This number will be indicative of overall facility condition and can be used to order facilities by respective condition relative to others.

- A score of 100 indicates a brand new, unoccupied facility with no construction defects and no code violations.
- A score of 0 indicates a very old facility with no usable architectural elements or attached assets.
- Realistically speaking, all occupied buildings will score more than zero and less than 100.
- The lower the score, the less cost effective to operate the building. A good rule-of-thumb is when the score falls below 34, equivalent annual cost to replace a facility will be less than continuing to operate and maintain the existing facility.

Building Exterior



Site Narrative

The assessment team completed the site visit/inspection on January 31, 2017. The Team reviewed the exterior of the building including roofing, exterior walls, generator and outdoor mechanicals. The team then moved inside and reviewed interior finishes and mechanicals including but not limited to, walls and ceilings, foundations, boiler heating, plumbing, hvac systems, electrical and elevator systems in the building. The following was validated/noted during the inspection with site personnel:

- The site was originally constructed in 1921.
- Major interior renovations and new windows were done in 2013.
- Major mechanical renovations were completed in 2015.
- The exterior is brick with a 15-year old built-up roof system.
- Two new Magnatherm boilers housed in the separate boiler house provide heat.
- Cooling is provided through roof-top, DX chillers.
- Some water intrusion was noted in the lower level of the boiler house on the day of the visit.
- Two large Kewanee boilers are also abandoned-in-place in the boiler house.
- The main building has an elevator.
- All areas reviewed were well maintained and in good condition considering overall age.

The full Combined Condition Assessment is as follows:

BUILDING NAME: Woodward School for Technology and Research

BUILT: 6/1/1921 ASSESSMENT DATE: 1/31/2017

CATEGORY	SUB-CATEGORY	TYPE	INSTALLED DATE	AGE	REMAINING SERVICE LIFE	AGE-BASED CONDITION INDEX	INSPECTED OPERATING CONDITION	COMMENTS
STRUCTURE				4.0	63.9	70.8		
FOUNDATION			6/1/1921	75.0	55.7	-20.7	0.0	62.5
PARKING LOTS			6/1/2013	15.0	3.7	11.3	59.5	75.0
PEDESTRIAN PAVING			6/1/2013	25.0	3.7	21.3	57.8	75.0
EXTERIOR								
WALLS			6/1/1921	70.0	95.7	-25.7	0.0	75.0
WINDOWS			6/1/2013	30.0	3.7	26.3	98.5	75.0
STAIRWAYS			6/1/2013	75.0	3.7	71.3	99.8	75.0
DOORS			6/1/2013	35.0	3.7	21.3	95.9	75.0
ROOF								
ROOF COVERING			6/1/1921	20.0	95.7	-75.7	0.0	71.9
HVAC								
AIR HANDLING UNITS			6/1/2015	20.0	1.7	18.3	99.3	94.4
BOILERS			6/1/2015	30.0	1.7	28.3	99.7	100.0
CHILLERS			6/1/2015	20.0	1.7	18.3	99.3	100.0
GAS PIPING SYSTEMS			6/1/2015	75.0	1.7	73.3	99.9	100.0
CLOUDING TOWERS								
PUMPS			6/1/2015	20.0	1.7	18.3	99.3	100.0
EXHAUST SYSTEMS			6/1/2015	20.0	1.7	18.3	99.3	75.0
WALK IN FREEZERS								
VENT AND POOL HEATERS								
COOLING PIPING			6/1/2015	75.0	1.7	73.3	99.9	93.8
ELECTRICAL								
ELECTRICAL SERVICE/DISTRIBUTION			6/1/2015	50.0	1.7	23.3	98.1	84.0
LIGHTING			6/1/2015	20.0	1.7	18.3	99.9	96.9
EMERGENCY GENERATOR			6/1/2015	30.0	1.7	28.3	99.3	82.1
KITCHEN EQUIPMENT			6/1/2013	20.0	3.7	16.3	95.7	100.0
INTERCOM / PA EQUIPMENT			6/1/2013	20.0	3.7	16.3	96.6	75.0
FIRE ALARM SYSTEM			6/1/2013	20.0	3.7	16.3	95.6	75.0
PLUMBING								
RESTROOMS			6/1/2013	30.0	3.7	26.3	82.9	75.0
BACKFLOW PREVENTERS			6/1/2013	10.0	6.3	3.3	98.4	75.0
GENERAL			6/1/2013	35.0	3.7	31.3	98.9	75.0
FOOD SERVICE			6/1/2013	35.0	3.7	31.3	98.9	75.0
DOMESTIC WATER HEATING								
WATER DISTRIBUTION			6/1/1921	75.0	95.7	-20.7	0.0	75.0
FIRE SUPPRESSION			6/1/2013	40.0	3.7	36.3	99.1	75.0
CONVEYING								
ELEVATORS			6/1/1997	25.0	19.7	5.3	37.9	75.0
INTERIOR CONSTRUCTION								
DOORS			6/1/1921	40.0	25.7	24.9	79.1	73.8
STAIRWAYS			6/1/2013	50.0	3.7	45.3	99.5	75.0
WALLS			6/1/2013	75.0	3.7	71.3	99.8	75.0
CEILINGS			6/1/2013	20.0	3.7	16.3	96.6	75.0
FLOORS			6/1/2013	50.0	3.7	45.3	99.5	75.0

BUILDING EXTERIOR FT²
60,635

AVERAGE			COMBINED CONDITION SCORE
SERVICE LIFE	AGE	REMAINING SERVICE LIFE	CONDITION INDEX
37.2	17.0	7.9	78.6
			77.3

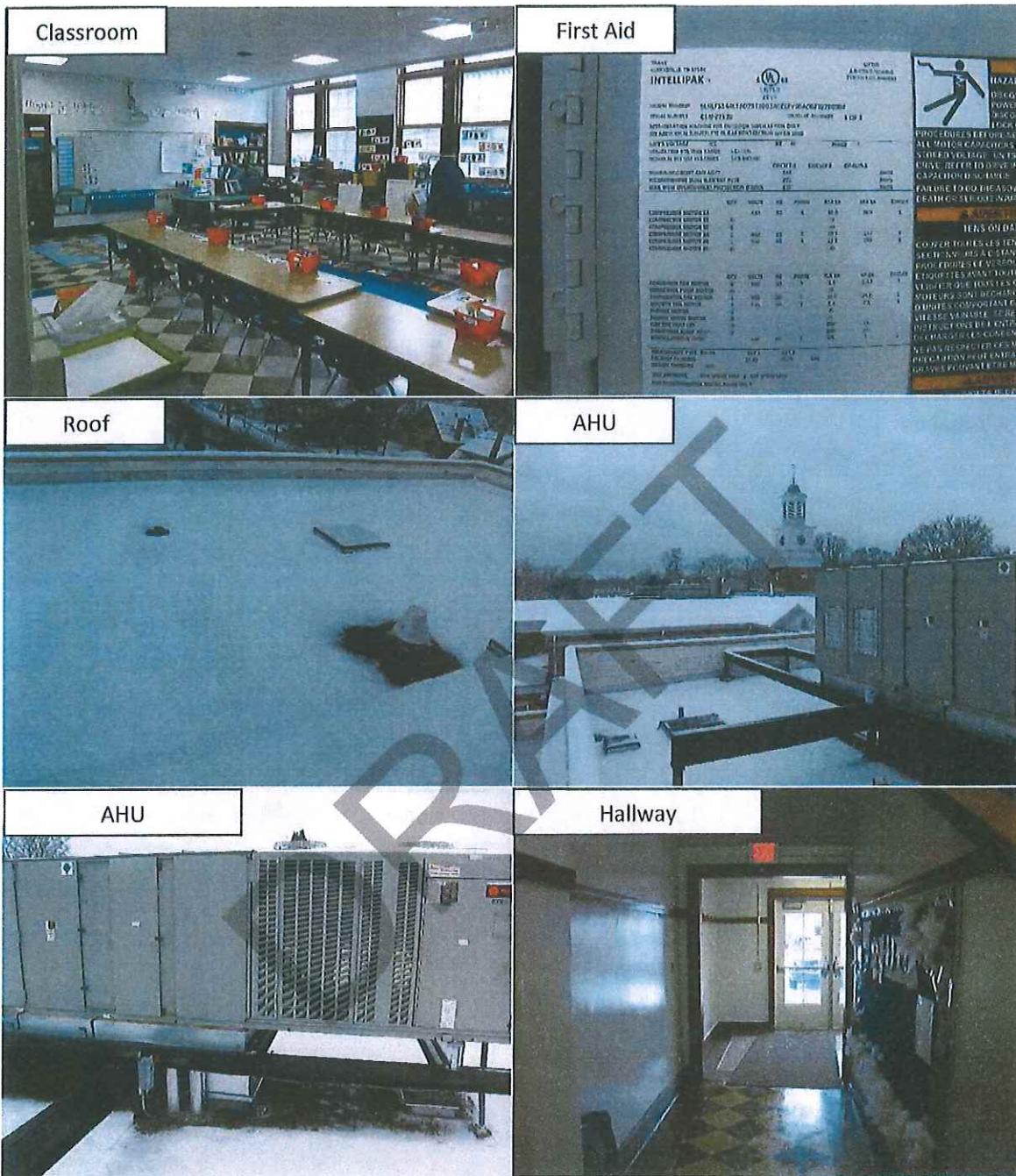
Woodward School for Technology and Research



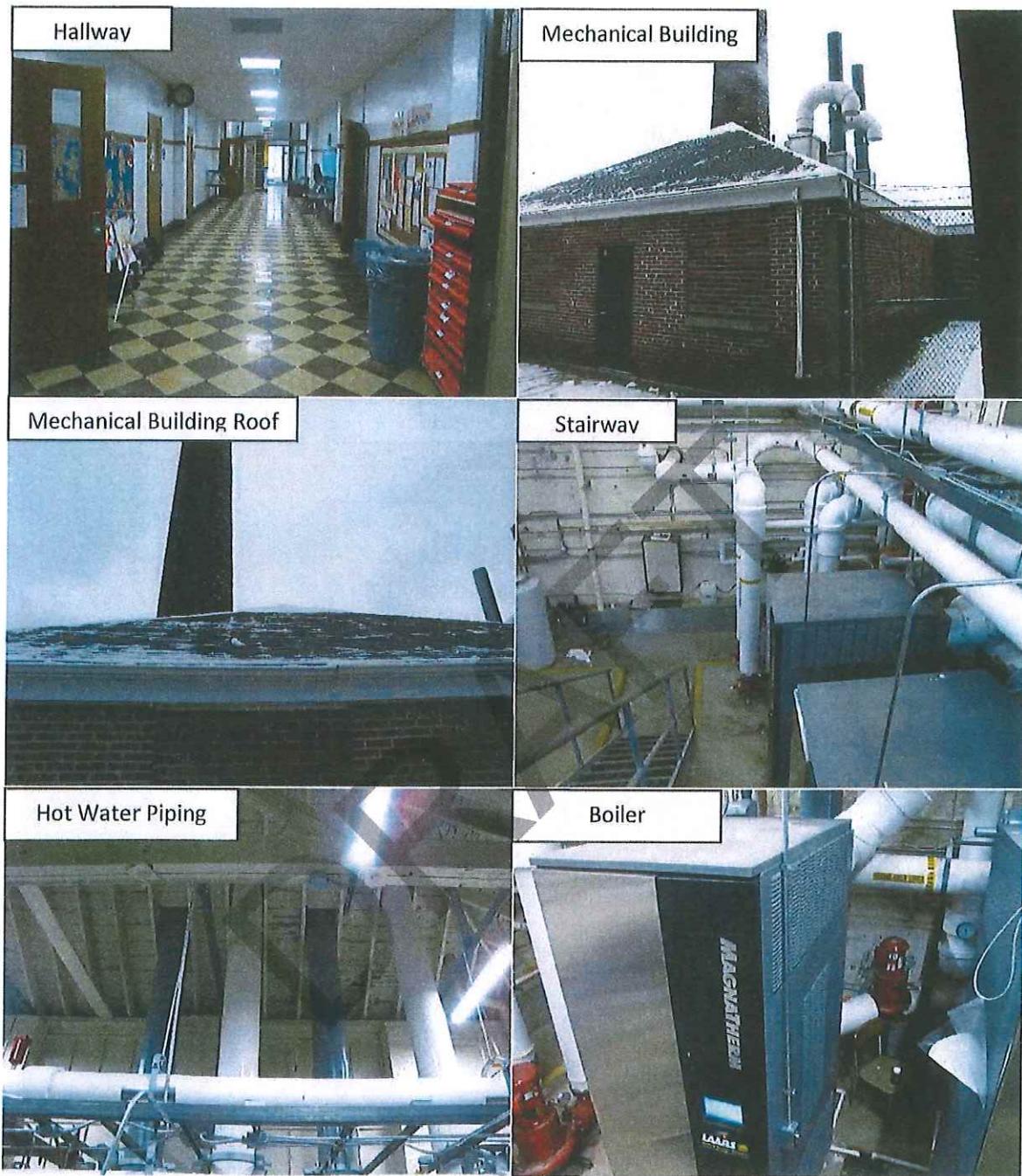
Woodward School for Technology and Research



Woodward School for Technology and Research



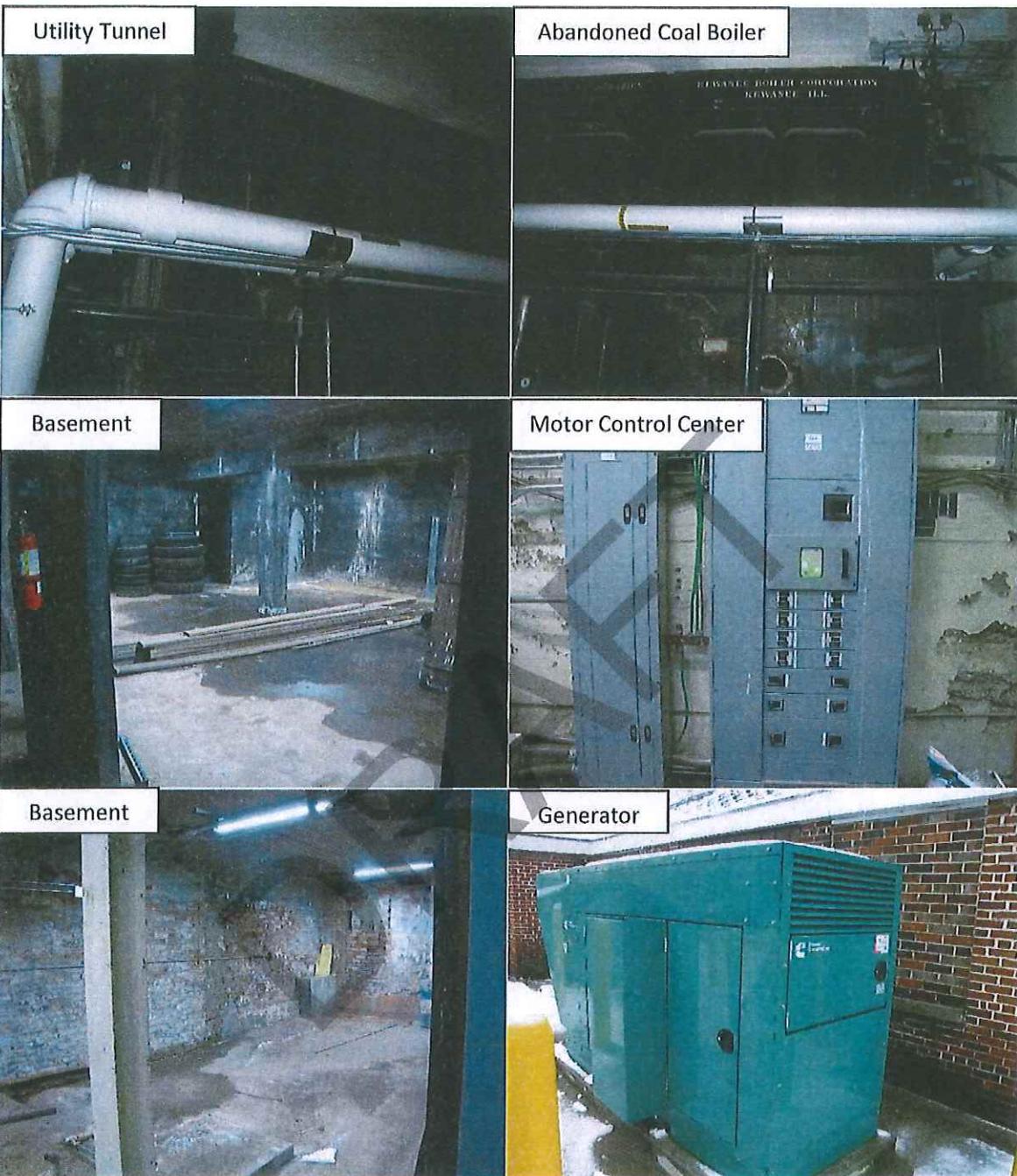
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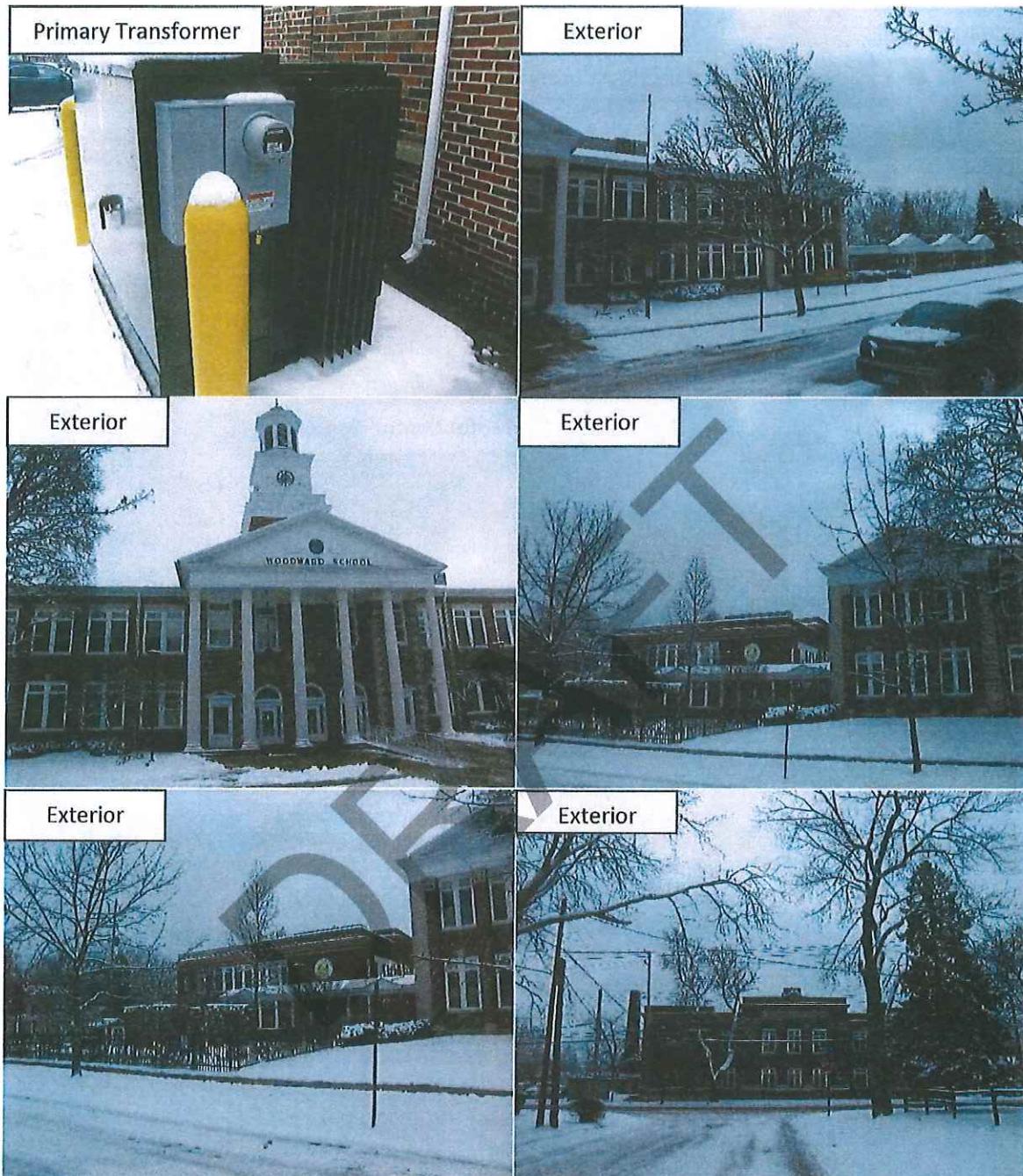
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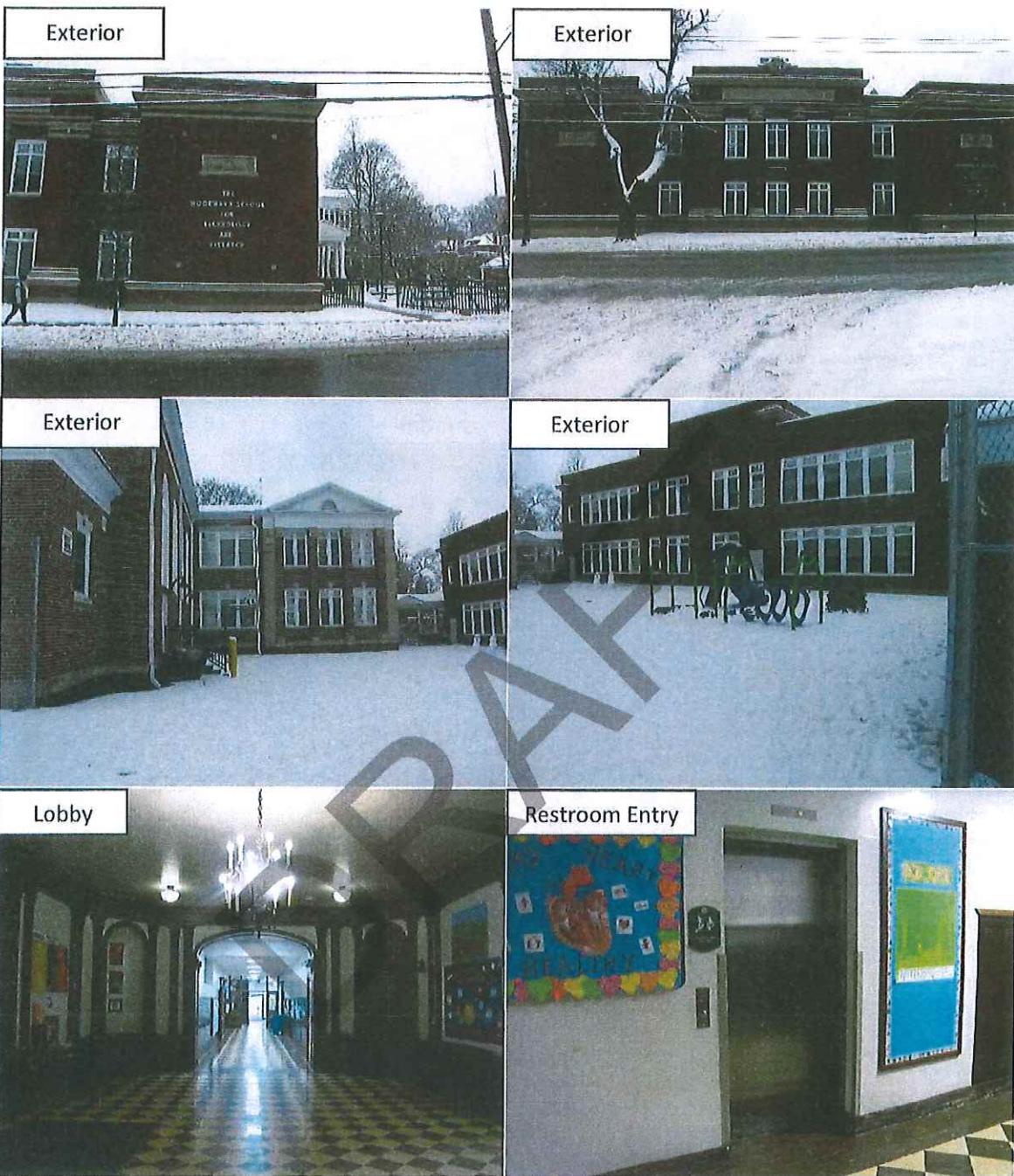
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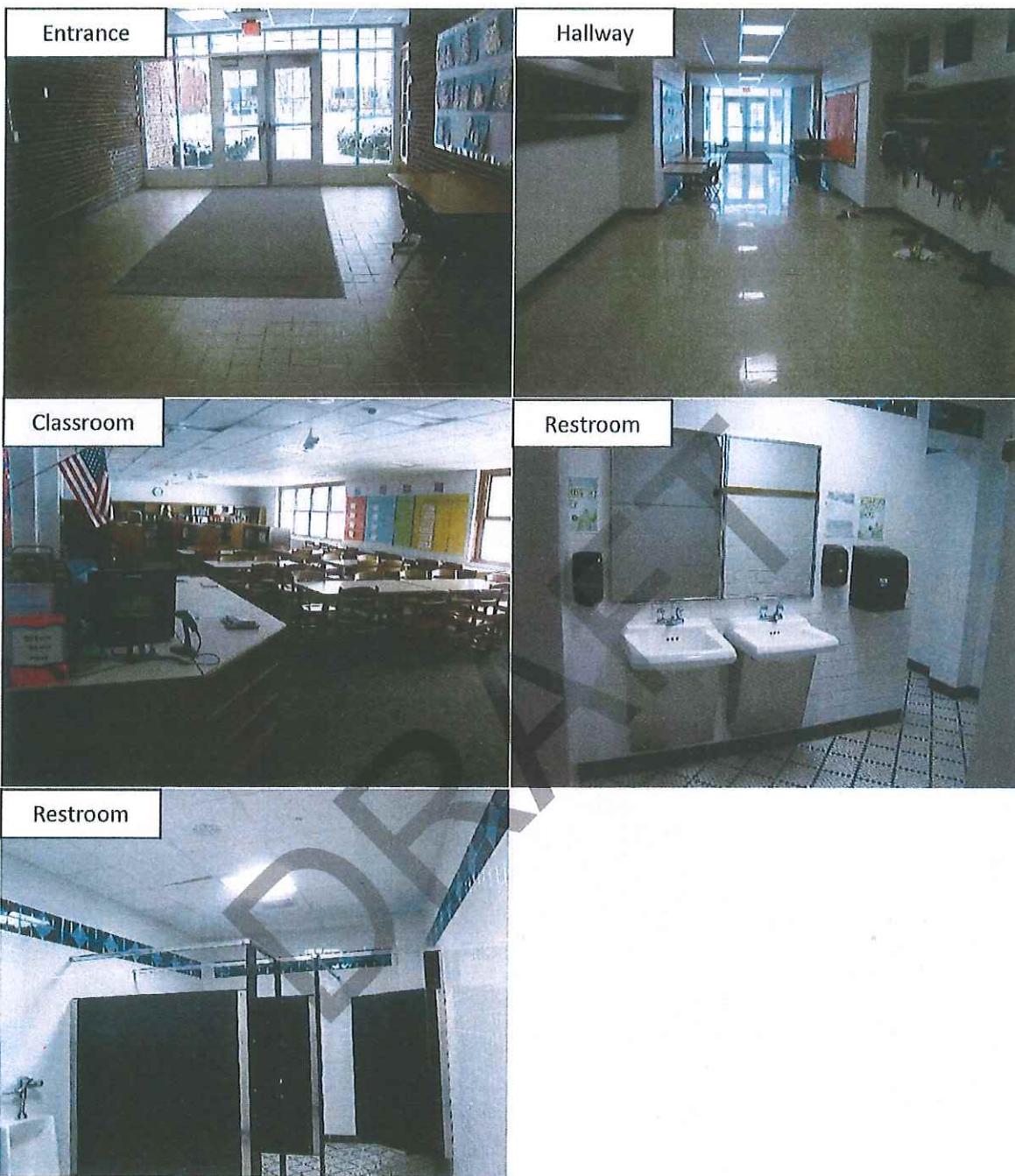
Woodward School for Technology and Research



Woodward School for Technology and Research



Woodward School for Technology and Research



BUILDING

				SCHOOL NAME		
				ADDRESS		
				BUILDING		
				SURVEY DATE		
				SURVEYORS		
4	NEW	No issues / violations or adverse conditions / less than 3 years old		Woodward School for Technology and Research 606 Stuart Avenue, Kalamazoo, MI		
3	GOOD	No issues / violations or adverse conditions other than new				
2	FAIR	No Issues / violations or adverse conditions other than new				
1	POOR	Average wear for building age; not new but no issues		Violations: 90 days		
0	CERTIFIED	Worn from use-end of expected lifecycle		Violations: 45 days		
		Extremely worn or damaged		Violations: / Imminent danger or inoperable		
		4	3	2		
		3	1	0		
		COMMENTS / RECOMMENDED ACTION				
Civil						
Perimeter Fencing						
Paving	Parking Lot (Asphalt / Concrete)		3	N/A		
Curbing			3			
On-Site Signage				N/A		
Pedestrian Access (Michigan Barrier Free & Safety)			3			
Site Facilities						
Michigan barrier free Compliance	Loading Dock			N/A		
Handicap Parking			3			
Accessible Entry			3			
Exterior Ramps and walks			3			
Barrier free route (ROW - Sidewalk to Bldg. Entry)			3			
Building Entry			3			
Foundation/Footings						
Structure			2			
Columns/Beams/Walls						
Structure			3			
Applied Fireproofing Systems			3			
Roofing						
Roof Openings (Skylights)				N/A		
Roof Openings (Access)			2			
Roof Equipment Curbing			3			
Leakage			3			
Ponding Water			3			
Roof Drains			3			
Gutters / Downspouts			3			
Exterior Walls						
Exterior Finish			3			

BUILDING

				SCHOOL NAME
4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Woodward School for Technology and Research
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	605 Sturt Avenue, Kalamazoo, MI
2	FAIR	Average wear for building age; not new but no issues	Violations=90 days	BUILDING
1	POOR	Worn from use - end of expected lifecycle	Violations=45 days	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holingsher / Todd Perry SURVEYORS
		COMMENTS / RECOMMENDED ACTION		
Expansion / Control Joints		4	3	2
Thermal Condition		3	3	1
Soffits		3	3	0
General Appearance		3	3	0
Doors / Windows / Louvers		3	3	0
Windows		3	3	0
Louvers and Vents		3	3	0
Main Entry Doors		3	3	0
Main Entry Hardware		3	3	0
Other Exterior Doors		3	3	0
Other Exterior Door Hardware		3	3	0
General		3	3	0
Wall Finishes (Classrooms)		3	3	0
Wall Finishes (Corridors)		3	3	0
Wall Finishes (Restrooms)		3	3	0
Wall Finishes (Others)		3	3	0
Ceilings		3	3	0
Cabinetry		3	3	0
Moveable / Operable Walls		3	3	0
Interior Doors		N/A	N/A	N/A
Door & Frame Condition		3	3	N/A
Hardware Condition		3	3	N/A
Hallway Fire Door		3	3	N/A
Cafe / Concession Security Gates / Roll-up Doors		2	2	N/A
Flooring				
ACT		3	3	
Drywall				
Other				
Carpet				

BUILDING

							SCHOOL NAME
4	NEW						Woodward School for Technology and Research
3	GOOD						606 Stewart Avenue, Kalamazoo, MI
							BUILDING
2	FAIR						
1	POOR						
0	CRITICAL						
							SURVEY DATE
New or like-new condition; no issues to report; no expected failures.	No Issues / violations or adverse conditions / less than 3 years old						1/31/2017
Good condition; no reported issues or concerns	No Issues / violations or adverse conditions other than new						
Average wear for building age; not new but no issues	Violations=90 days						
Worn from use -end of expected lifecycle	Violations=45 days						
Extremely worn or damaged	Violations / Imminent danger or inoperable						
		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
VCT							N/A
Tile							
Terrazzo							
Wood							
Sealed Concrete							
Stairs	Landing finish						
	Stair treads						
	Stair nosings						
	Handrails						
Toilet Rooms	Flooring						
	Walls						
	Signage						

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MECHANICAL

				SCHOOL NAME	
4	NEW	New or like-new condition: no issues to report; no expected failures	No issues / violations or adverse conditions / less than 2 years old	Woodward School for Technology and Research	
3	GOOD	Good condition: no reported issues or concerns	No issues / violations or adverse conditions: other than new	605 Stuart Avenue, Kalamazoo, MI	
2	FAIR	Average wear for building age: not new but no issues	Violations=90 days		
1	POOR	Worn from use - end of expected lifecycle	Violations=45 days		
0	Critical	Extremely worn or damaged	Violations / imminent danger or irreparable	Mike Holzinger / Todd Perry	
				SURVEY DATE	
				SURVEYOR	
				COMMENTS / RECOMMENDED ACTION	
Gas System					
	Piping	4			
	Other (Vented Interior Regulators)	4			
	Gas PRV (Proximity to OA intakes)	4			
	Science Classroom Emergency Off Switch			N/A	
Cooling Plant					
	Distribution Piping (2 pipe or 4-pipe)	4			
	Chillers (Age, Refrigerant, Heat Rejection Method)	4			
	Cooling Towers (Age, Materials, VFD, Sufficiency)			N/A	
	CHW Pump Volute Insulation type (Foamglass, Armaflex, phenolic foam, fiberglass, mineral wool)	4			
	Plant Piping & Valves (Corroded/Isolation valves)	4			
	Chilled Water Pipe Insulation & Jacket (Foamglass Armaflex)	4			
	Campus Piping & Valves (Corroded/Isolation valves)	3			
	Refrigeration Room Monitoring and Ventilation			N/A	
Heating Plant					
	Boilers (Age, Fuel Type, Input/Output)	4			
	Pumps (VFD / Sound / Suction Pressure)	4			
	Plant Piping & Valves (Corroded/Isolation valves)	4			
	Campus Piping & Valves (Corroded/Isolation valves)	4			
	Boiler Room E-Stop	4			
Dedicated Airside Heating Systems					
	Heating-Only Air Handling Units (Age)			N/A	
	Duct Furnaces (Fuel, Type, Age, Mission)			N/A	
	Unit Heaters (Fuel, Type, Age, Mission)	3			
	Heating-Only Unit Ventilators (year, condition)			N/A	
Air Distribution					
	Outside Air Units (Age, HR Type, ERV, Unitary, VAV)	4			
	Rooftop ACUs (Age, Gas Heat or Heat Pump)	4			

MECHANICAL

			MECHANICAL							
			MECHANICAL							
			MECHANICAL							
4	NEW	New or like-new condition: no issues to report; no reported failures	No Issues / violations or adverse conditions / less than 3 years old			Woodward School for Technology and Research	SCHOOL NAME			
3	GOOD	Good condition: no reported issues or concerns	No Issues / violations or adverse conditions other than new			SOS Smart Avenue, Kalamazoo, MI	ADDRESS			
2	FAIR	Average wear for building age: net new but no issues	Violations>30 days				BUILDING			
1	POOR	Worn from use -end of expected lifecycle	Violations>45 days				SURVEY DATE			
0	Critical	Extremely worn or damaged	Violations / Imminent danger or inoperable			Mike Holinger / Todd Perry	SURVEYOR			
			COMMENTS / RECOMMENDED ACTION							
Central Station AHUs (Age, Type/Geometry, VAV, typ. SAT dual path unit)			4	3	2	1	0			
Terminal Units (VAV, VAV/reheat, Heat source, Close-off VAV, SFPU, PFPU)										
Exhaust Systems							N/A			
Restrooms				3						
Locker Rooms							N/A			
Kitchen	Hood Systems (Grease or Heat only, Ansul system, Heat sensor start)		3							
	Exhaust Fan Outlet height (is it <40")		3							
Science	Room Emergency Exhaust (Operation)						N/A			
	Fume Exhaust (Latest year certified, sah height, manifolded, VAV, fan location)						N/A			
	Stack outlet height (is it <10')						N/A			
Art Kiln			Exhaust Fan / Exhaust Hood				N/A			
Refrigeration Systems										
Freezer Systems (Age, Location, Refrigerant)							N/A			
Cooler Systems (Age, Location, Refrigerant)							N/A			
Indoor Swimming Pool Systems										
Vent and Pool Heater							N/A			
Fire Alarm System and Fire Suppression										
Fire suppression										

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PLUMBING

				SCHOOL NAME
4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Woodward School for Technology and Research
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	605 Stuart Avenue, Kalamazoo, Mi
2	FAIR	Average wear for building age; not new but no issues	Violations>90 days	BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations<45 days	SURVEY DATE
0	Critical	Extremely worn or damaged	Violations / imminent danger or imperable	SURVEYOR
				COMMENTS / RECOMMENDED ACTION
Site Utilities				
	Backflow Preventer			
	Water Service Piping			
Roofing				
	Roof Drains (piping)			
Toilet Rooms				
	Toilet Partitions			
General				
	Custodial Closets (Mop Sinks)	3		N/A
	Laboratory Sinks			
	Eyewash / Emerg. Shower (Tepid Water)	3		
	Showers (Self metering, Shut-off)			
	Kitchen (POU Grease, Interceptor)	3		N/A
	Grease (Indoor/outdoor, Interceptor)			
	Water Fountains (Self contained water cooler, bubbler)	3		
	Sewer Ejector systems			
	Dilution Tanks (Science Classrooms/Neutralization tanks)			
	DWW	3		N/A
Restrooms				
	Water Closets	4		
	Urinals	4		
	Lavatories / Sinks	4		
Water Distribution				
	Water Distribution Piping			
	Water Heaters (Separate from Bldg. Heating / Kitchen)	3		
	Water Meter	3		
Food Service				
	SS Sinks			
	Mop Sinks			

PLUMBING

Facility Assessment: Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

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BOILER

4	NEW	New or like-new condition: no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Woodward School for Technology and Research	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	605 Stuart Avenue, Kalamazoo, MI	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations=90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations=45 days	1/31/2017	SURVEY DATE
0	CERTIFICATE	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holdinger / Todd Perry	SURVEYOR
					COMMENTS / RECOMMENDED ACTION

Heating Plant

Boilers (Age, Fuel Type, Input/Output)	4				
Pumps (VFD / Sound / Suction Pressure)	4				
Plant Piping & Valves (Corroded/Isolation Valves)	4				

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ELEVATOR

4	NEW	New or like-new condition; no issues to report; no expected failures	No Issues / violations or adverse conditions / less than 3 years old	Woodward School for Technology and Research	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No Issues / violations or adverse conditions other than new	605 Stuart Avenue, Kalamazoo, MI	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations=50 days		BUILDING
1	POOR	Worn from use and/or expected lifecycle	Violations=45 days	1/31/2017	SURVEY DATE
0	Critical	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holzinger/Todd Perry	SURVEYOR
					COMMENTS / RECOMMENDED ACTION

Elevator State Serial Number:

Machine Room Equipment	3			
Door Operators and Operating Equipment	3			
Interior Cab / Signage / Emerg. Phone	3			
Hoistway Pit	3			
Landing Fixtures	3			
Operating Condition	3			
Ropes / Hoisting Equipment	3			
Hoistway Equipment	3			
Fire and Emergency Service	3			

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ELECTRICAL

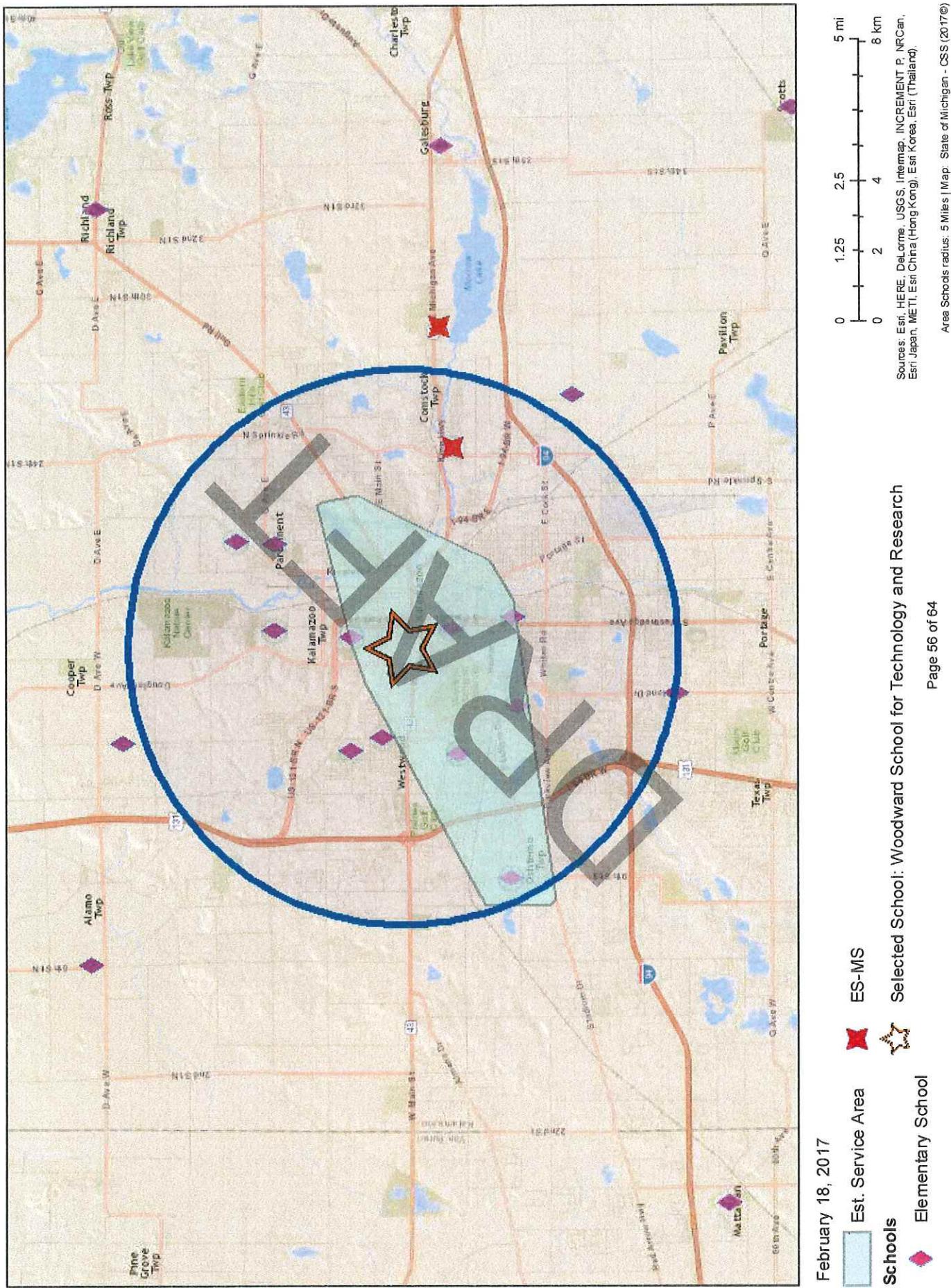
				SCHOOL NAME	
				Woodward School for Technology and Research	
				600 Smart Avenue, Kalamazoo, MI	
				BUILDING	
				SURVEY DATE	
				Mike Holzinger / Todd Perry	
				SURVEYOR	
				COMMENTS / RECOMMENDED ACTION	
4	NEW	No new or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old		
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new		
2	FAIR	Average wear for building age; not new but no issues	Violations=90 days		
1	POOR	Worn from use -end of expected lifecycle	Violations=45 days		
0	EXCELLENT	Extremely worn or damaged	Violations / imminent danger or inoperable		
				4	3
				2	1
				0	
Electrical Supply					
Service Switchgear/Electrical Service (Observed Condition)		4			
District-owned Site Transformers (Observed Condition)		4			
Motor Control Centers		4			
Electrical Distribution					
Equipment		4			
Panelboards (Condition & Capacity)		4			
Feeders (Observed Condition)		4			
Devices (Switches & Receptacles)		3			
TSS - Surge Suppression				N/A	
Transformers		4			
Lighting					
Classroom (Instructional)		4			
Corridor / Common Areas		3			
Restrooms		3			
High Bay Areas		3			
Emergency (Condition & Code Compliance)		4			
Exterior Perimeter (Building Mounted)		3			
Lighting Controls (Building Level)		3			
Other					
Kitchen Equipment Supply		3			
Emergency Generator (Observed Condition)		4			
Intercom / PA Systems (Observed Condition)		3			
Fire Alarm System (Observed Condition)		3			

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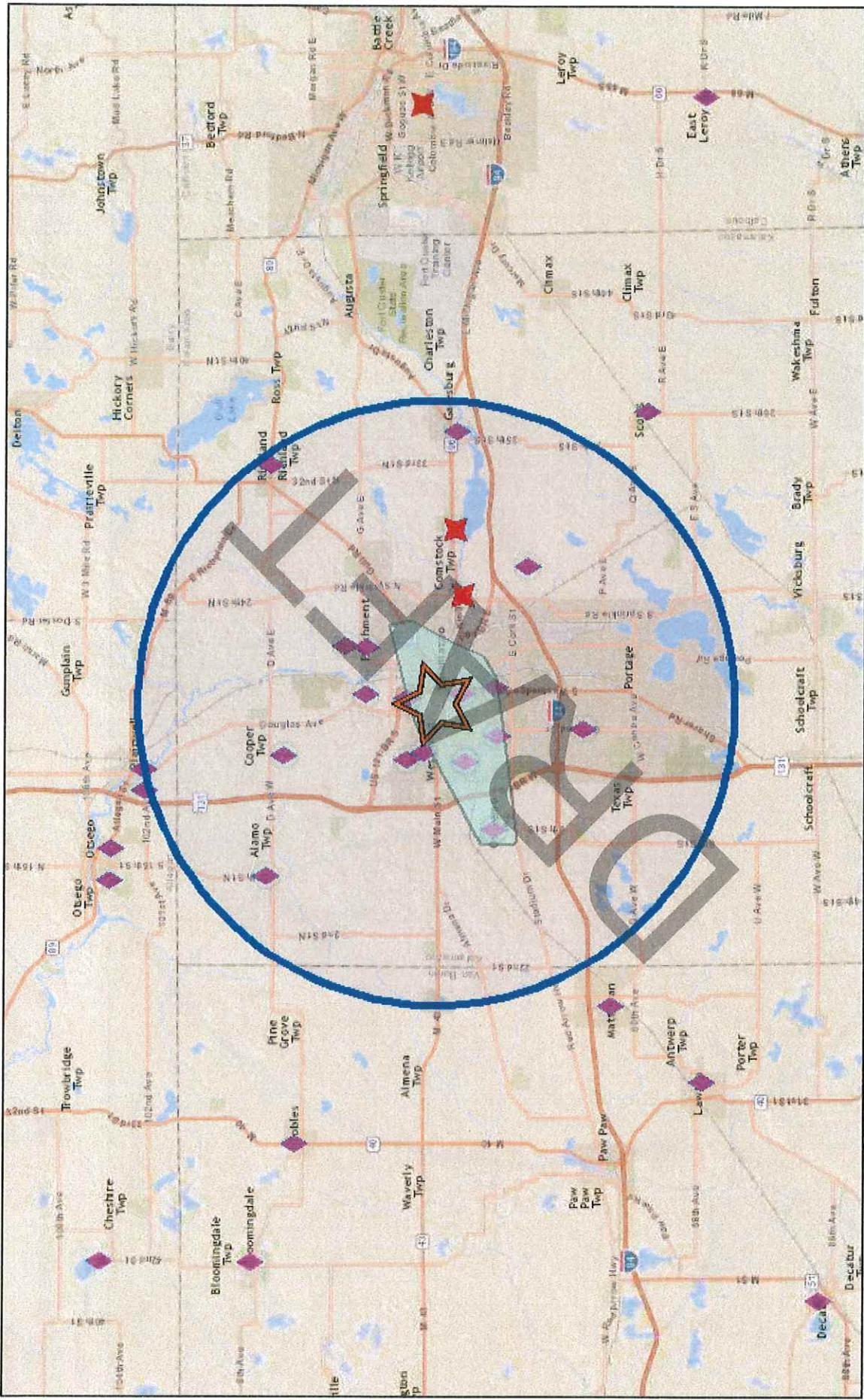
Appendix C: SCHOOL QUALITY MAPS

DRAFT

Woodward School for Tech. & Research: Qualified Schools Whithin 5 Miles



Woodward School for Tech. & Research: Qualified Schools Whithin 10 Miles



February 18, 2017

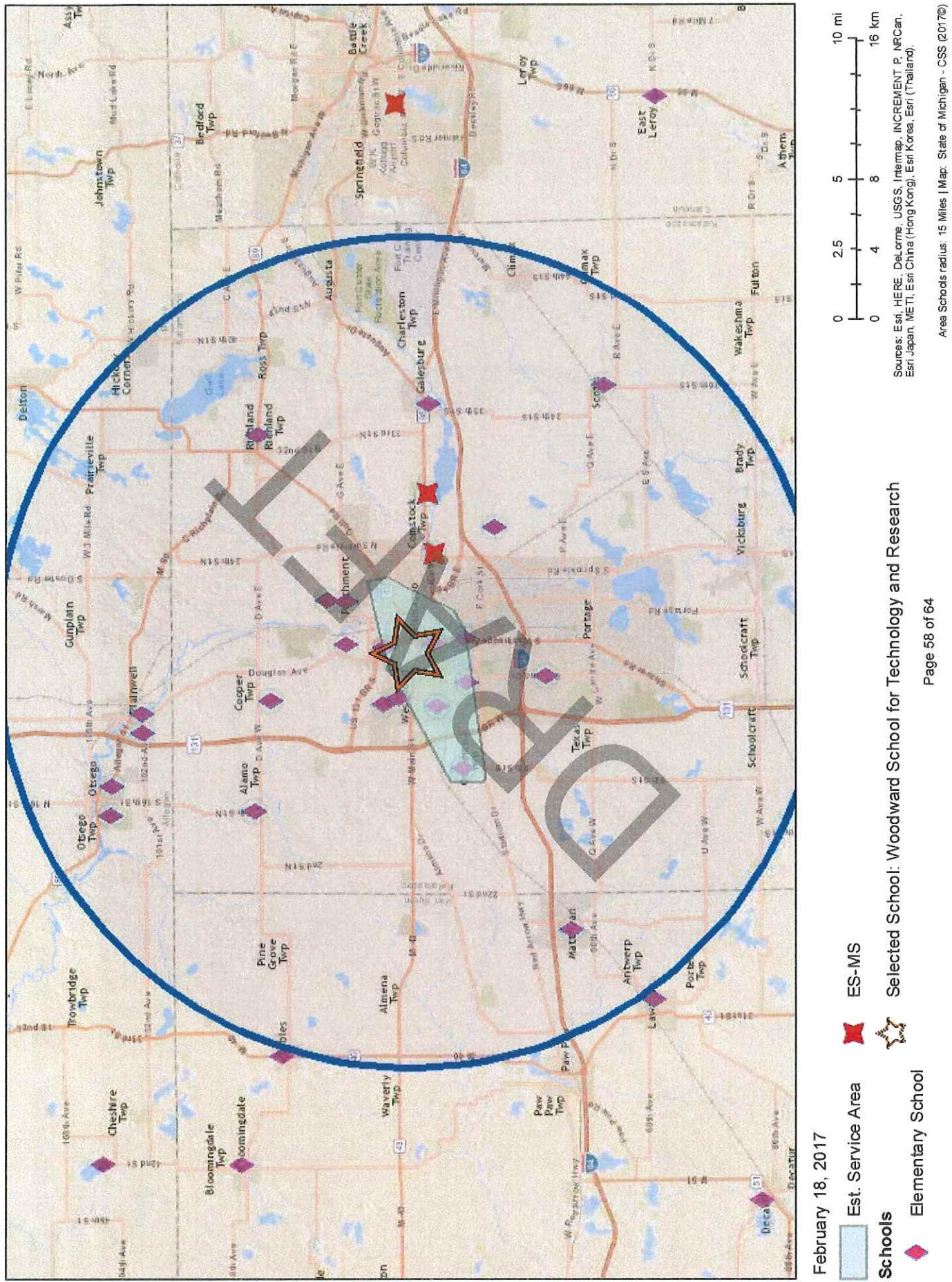
ES-MS
Elementary School

Selected School: Woodward School for Technology and Research
Star

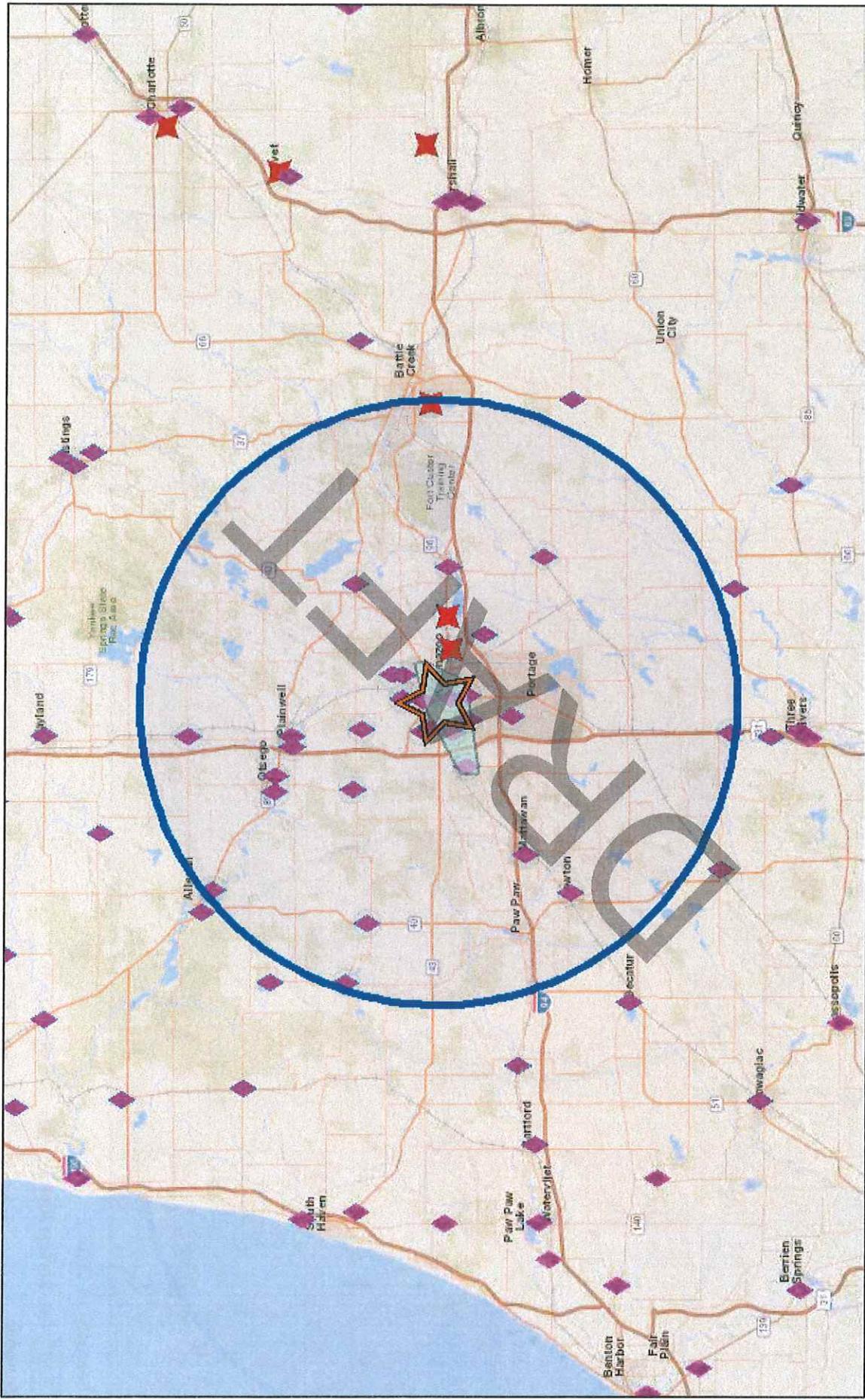
Sources: Esri, HERE, Delorme, USGS, Intimap, INCREMENT, P_NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand).
Area Schools radius: 10 Miles | Map: State of Michigan - CSS (2017c)

0 2.5 5 8 10 mi
0 16 km

Woodward School for Tech. & Research: Qualified Schools Within 15 Miles



Woodward School for Tech. & Research: Qualified Schools Whithin 20 Miles

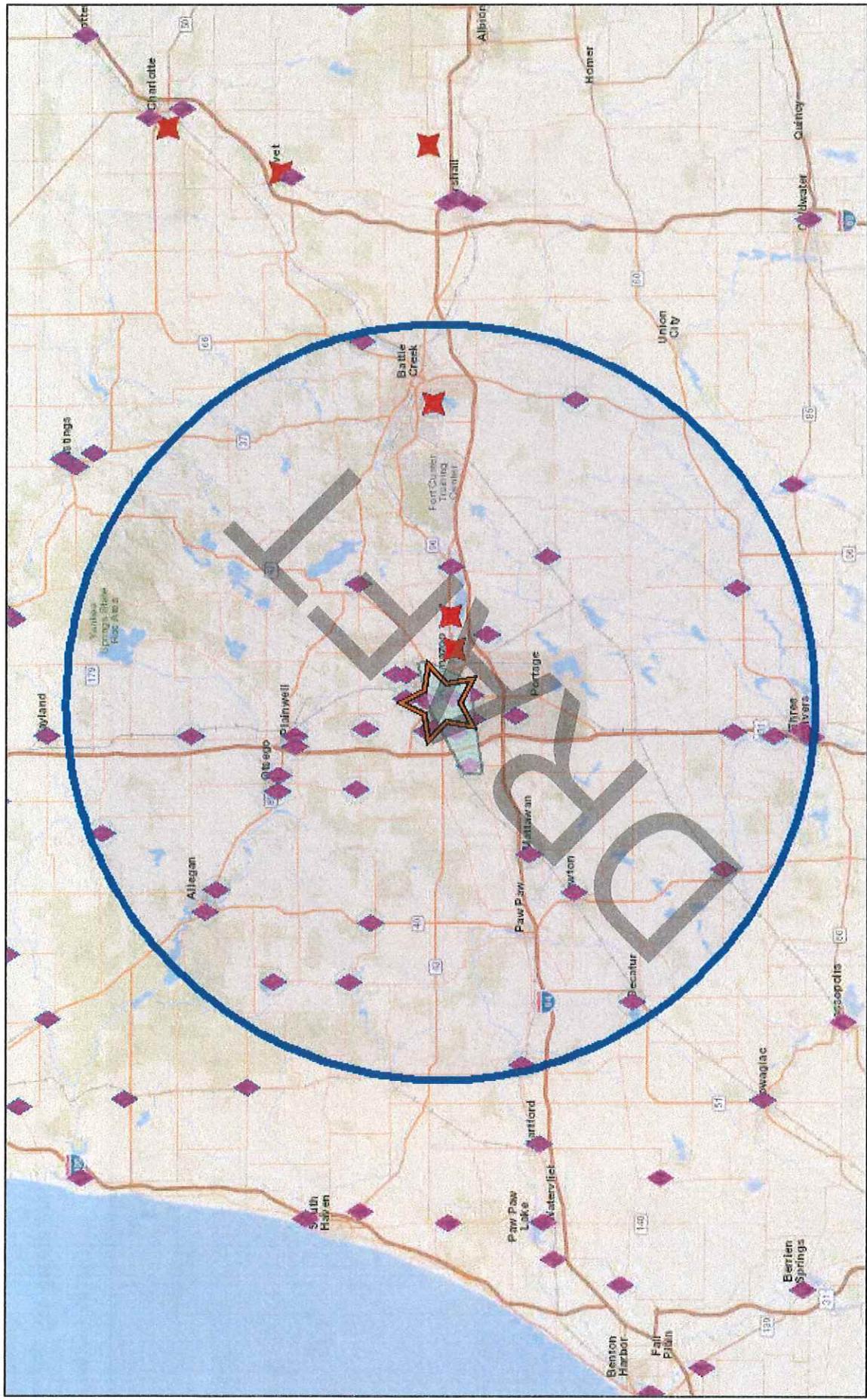


20 mi
20 km

0 5 10 15 20 Miles
0 5 10 15 20 Kilometers

Sources: Esri, HERE, Delorme, USGS, Intimap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (thiiland), Area Schools radius: 20 Miles | Map: State of Michigan - CSS (2017c)

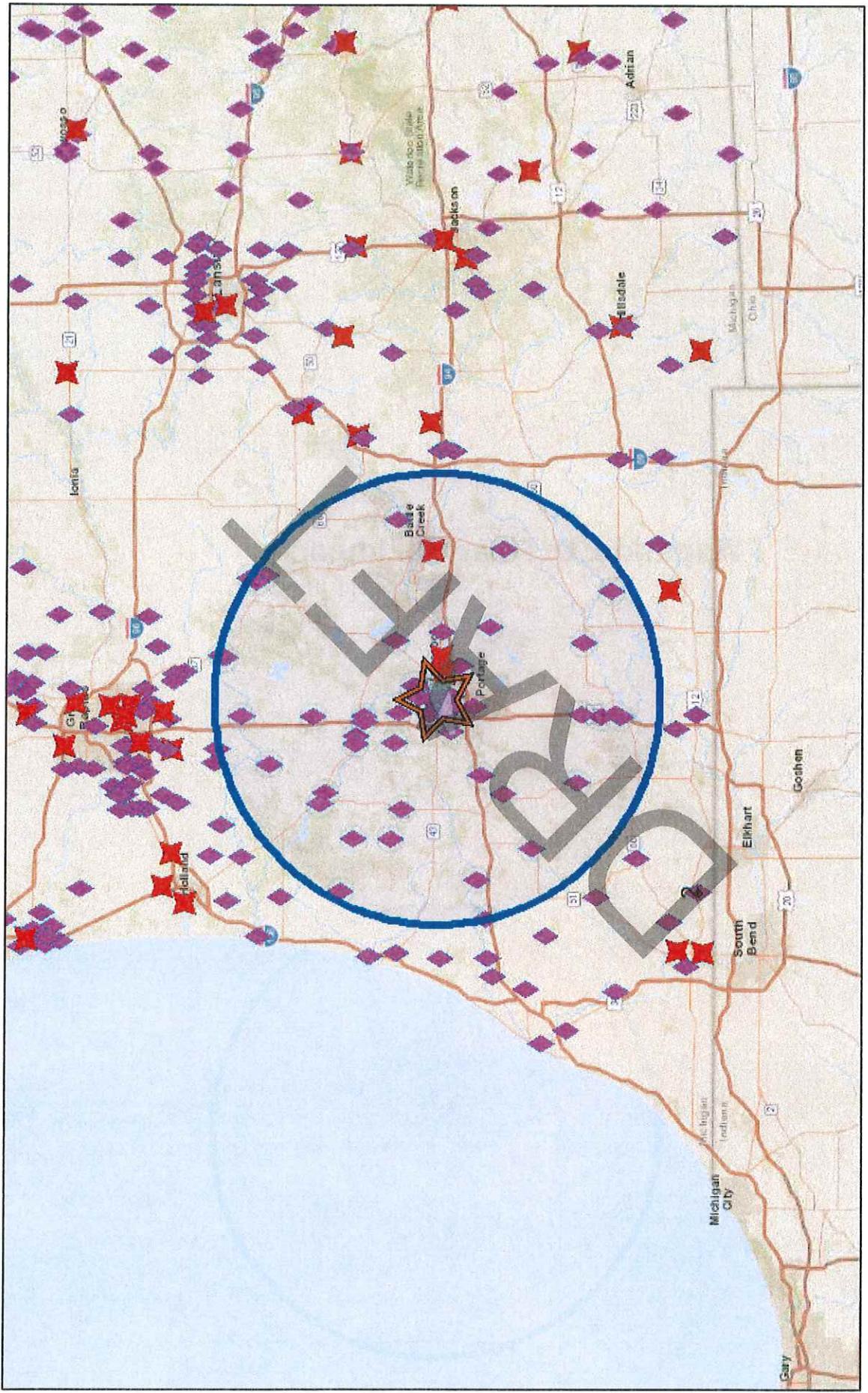
Woodward School for Tech. & Research: Qualified Schools Whithin 25 Miles



20 mi
20 km
0 5 10 15 20
0 5 10 15 20
Sources: Esri HERE, DeLorme, USGS, Intertech, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri Thailand, Esri Australia, Esri New Zealand, and others. © 2017 Esri. All rights reserved. Esri, the Esri logo, HERE, DeLorme, USGS, Intertech, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri Thailand, Esri Australia, Esri New Zealand, and others are trademarks of Esri and/or its partners. All other marks, trade names, or registered trademarks belong to their respective holders.

Area Schools radius: 25 Miles | Map: State of Michigan - CSS (2017©)
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Woodward School for Tech. & Research: Qualified Schools Whithin 30 Miles



40 mi
60 km
0 10 20 30 40 Miles
0 15 30 60 Kilometers

Sources: Esri, HERE, Delorme, USGS, Intimap, INCREMENT P, NRCan, Esri Japan, MEI, Esri China (Hong Kong), Esri Korea, Esri (Thailand).
Area Schools radius: 30 Miles | Map: State of Michigan - CSS (2017©)

Selected School: Woodward School for Technology and Research

Appendix D: Financial Impact

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Appendix D: Finance – Outstanding Obligations

Schools Identified for the Next Level of Accountability Outstanding Obligations		
Kalamazoo Public Schools		
Loan Type	Loan Balance	Maturity
2016 SAN C-1	\$4,097,486.00	8/21/2017
2016 SAN C-2	\$6,152,514.00	8/21/2017
2016 SAN C-3	\$5,059,833.33	8/21/2017
Total	\$15,309,833.33	

Source: Michigan Finance Authority via Michigan Department of Treasury

Appendix D: Finance – Potential Losses

Schools' Potential Losses from School Closures					
Kalamazoo Public Schools					
School	Allowance	Student Count (Losing)	Foundation (Losing)	Student Count (Total)	Foundation (Total)
Washington Writers Academy	\$ 7,738.00	433.00	\$ 3,350,554.00	12,735.68	\$ 98,548,691.84
Woodward School for Technology and Research	\$ 7,738.00	360.00	\$ 2,785,680.00	12,735.68	\$ 98,548,691.84
TOTAL	\$ 7,738.00	793.00	\$ 6,136,234.00	12,735.68	\$ 98,548,691.84
Kalamazoo 2016 Federal Revenues					
General Fund		\$ 9,946,077.38			
Food Service		\$ 6,802,736.50			
Debt Service		\$ 612,154.28			
Total		\$ 17,360,968.16			

Source: Michigan Department of Treasury